Amendments to the Claims

Claims 1-36 (Cancelled).

- (New) A method of making a hybrid *Lycopersicon* plant expressing flavonol in the peel and flesh of the fruit of said plant by crossing a wild *Lycopersicon* species that expresses *CHI* in the peel and that expresses genes of the flavonol biosynthetic pathway in the flesh with a *L*. esculentum plant to produce said hybrid plant.
- (New) The method of making a hybrid *Lycopersicon* plant according to claim 37 further comprising the step of screening *Lycopersicon* accessions for expression of *CHI* in the peel and/or for expression of one or more of the genes of the flavonol biosynthetic pathway in the flesh.
- (New) The method of making a hybrid *Lycopersicon* plant according to claim 38 and, wherein said *Lycopersicon* species selected for crossing with a *L. esculentum* plant are *L. chilense* or *L. pennellii*, or any other wild tomato species that expresses genes of the flavonol biosynthetic pathway in the flesh and *CHI* in the peel of said fruit.
- (New) The method of making a hybrid *Lycopersicon* plant according to claim 39, wherein the accessions selected for crossing are LA1963, LA2884, and LA1926.
- 41) (New) A hybrid *Lycopersicon* plant produced by the method of claim 37.
- 42) (New) A hybrid *Lycopersicon* plant produced by the method of claim 40.
- (New) A hybrid *Lycopersicon* plant produced by the method of claim 40, wherein the accession chosen for crossing is LA1926.
- (New) A hybrid *Lycopersicon* plant, wherein the flavonol content in the fruit flesh of said plant is greater than 0.5 μg/mgdwt.
- (New) The hybrid *Lycopersicon* plant according to claim 44, wherein the flavonol content in said fruit flesh is greater than 1.0 µg/mgdwt.

- (New) The hybrid *Lycopersicon* plant according to claim 44, wherein the flavonol content in said fruit flesh is greater than 1.5 μg/mgdwt.
- 47) (New) The hybrid *Lycopersicon* plant according to claim 44, wherein the flavonol content in said fruit flesh is greater than approximately 2 μg/mgdwt.
- (New) The hybrid *Lycopersicon* plant according to claim 44, wherein the flavonol content in the peel of the fruit is at least approximately 5 μg/mgdwt.
- (New) The hybrid *Lycopersicon* plant according to claim 44, wherein said flavonol content in the peel of the fruit is at least approximately 10 μg/mgdwt.
- 50) (New) The hybrid *Lycopersicon* plant according to claim 44, wherein said flavonol content in the peel of the fruit is at least approximately 17 μg/mgdwt.
- (New) A seed of said *Lycopersicon* plant of claim 44.
- 52) (New) A fruit of said Lycopersicon plant of claim 44.
- (New) A *Lycopersicon* plant, or parts thereof, produced by growing the seed of claim 51.